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PTO/SB/08A (08-00)

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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

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of

2

### Complete if Known

Application Number	10/028,075
Filing Date	12/21/2001
First Named Inventor	Khan et al.
Group Art Unit	To be assigned 1636
Examiner Name	To be assigned J. Dunston
Attorney Docket Number	2183-5223US

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/JD/		CONNELLY et al., Biphasic Regulation of NF-kB Activity Underlies the Pro- and Anti-Inflammatory Actions of Nitric Oxide, The Journal of Immunology, 2001, pp. 3873-81, 166, The American Association of Immunologists, USA.	
/JD/		FRIEDLANDER, Tackling anthrax, Nature, November 8, 2001, pp. 160-61, Vol. 414.	
/JD/		MEDZHITOV, TollLike Receptors and Innate Immunity, Nature Reviews/Immunology, November 2001, pp. 135-45, Vol. 1.	

Examiner  
Signature

/Jennifer Dunston/ (05/18/2007)

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		US-			
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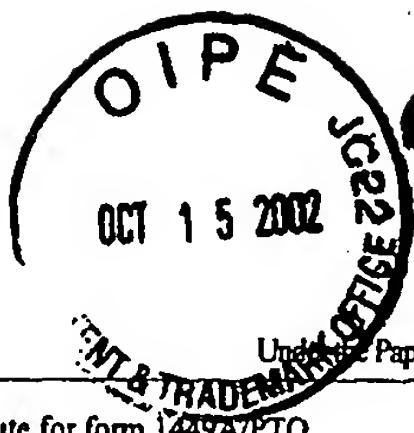
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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		WO 97/95617	11-28-1995	Erasmus Universiteit	Duplicate Citation	
/JD/		WO 97/49721	12-31-1997	University of Maryland		

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/JD/		PCT International Search Report, PCT/NL01/00259, dated December 18, 2001, 3 pages.	
		PCT International Preliminary Examination Report, PCT/NL99/00313, dated July 21, 2000, 6 pages.	
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/JD/		US- 4,977,244	12-11-1990	Muchmore et al.	
		<del>US- 5,677,275</del>	<del>10-14-1997</del>	<del>Lunardi-Iskandar et al.</del>	Duplicate Citation
/JD/		US- 5,877,148	03-02-1999	Lunardi-Iskandar et al.	
		US- 5,958,413	09-28-1999	Anagnostopoulos et al.	
		US- 5,997,871	12-07-1999	Gallo et al.	
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		US- 2003/0049273 A1	03-13-2003	Gallo et al.	
		US- 6,583,109 B1	06-24-2003	Gallo et al.	
		US- 6,586,688 B1	07-22-2003	Gallo et al.	
		US- 6,620,416 B1	09-16-2003	Gallo et al.	
		US- 2002/0064501	05-30-2002	Khan et al.	
		US- 2002/0041871	04-11-2002	Brudnak	
		US- 5,851,997	12-22-1998	Harris	
/JD/		US- 6,489,296	12-03-2002	Grinnell et al.	

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		Country Code <sup>2</sup> - Number <sup>4</sup> - Kind Code <sup>3</sup> (if known)				
/JD/		EP 1 300 418	04-09-2003	Erasmus Universiteit Rotterdam		
		WO 98/35691	08-20-1998	Proscript, Inc.		
		WO 02/085117	10-31-2002	Eisai Co., Ltd.		
		DE 3715662	11-19-1987	The Wellcome Foundation Ltd.		
		DE 19953339	05-17-2001	Goldham Pharma GmbH		
		WO 96/04008	02-15-1996	Government of the United States		
		WO 97/49373	12-31-1997	University of Maryland Biotechnology Institute		
		WO 97/49418	12-31-1997	University of Maryland Biotechnology Institute		
/JD/		WO 97/49432	12-31-1997	University of Maryland Biotechnology Institute		

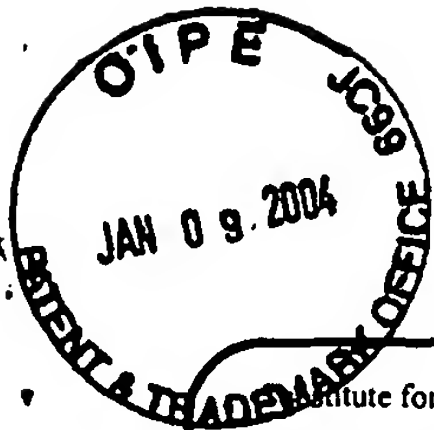
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		First Named Inventor	Khan et. al.		
		Group Art Unit	<del>1632</del> 1636		
		Examiner Name	T. McKelvey J. Dunston		
Sheet	2	of	2	Attorney Docket Number	2183-5223US

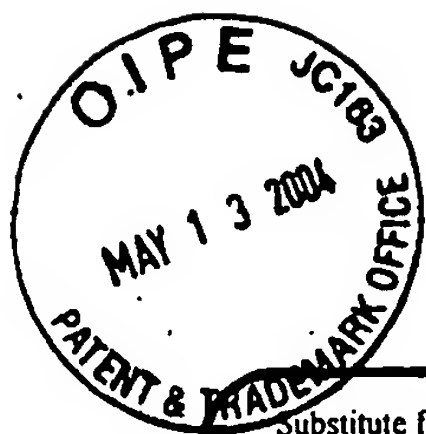
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/JD/		MUCHMORE et al., Purification and Characterization of a Mannose-Containing Disaccharide Obtained from Human Pregnancy Urine, Journal of Experimental Medicine, December 1984, pp. 1672-85, Volume 160.	

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/JD/		US-5,380,668	01-10-1995	Herron	
		US- 2003/0186244 A1	10-02-2003	Margus et al.	
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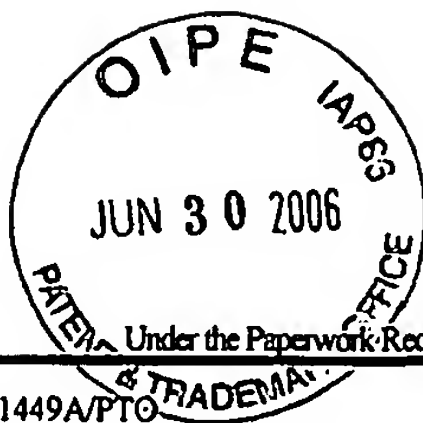
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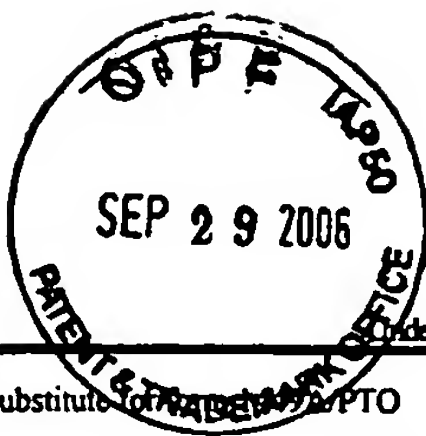
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/JD/		KACHRA et al., "Low Molecular Weight Components but Not Dimeric HCG Inhibit Growth and Down-Regulate AP-1 Transcription Factor in Kaposi's Sarcoma Cells," Endocrinology, 1997, pp. 4038-4041, vol. 138, no. 9.	
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/JD/		KHAVINSON et al, Gerontological Aspects of Genome Peptide Regulation, 2005, S. Karger AG, Basel, Switzerland.	

Examiner Signature	/Jennifer Dunston/ (05/18/2007)	Date Considered	
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**INFORMATION DISCLOSURE  
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1

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3

**Complete if Known**

Application Number	10/028,075
Filing Date	December 21, 2001
First Named Inventor	Khan et al.
Group Art Unit	1636
Examiner Name	J. Dunston
Attorney Docket Number	2183-5223US

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
/JD/		US-2003/0148955	08-2003	Pluenneke	
		US- 4,427,660	01-1984	Schiffman et al.	
		US- 4,571,336	02-1986	Houck et al.	
		US- 4,753,965	06-1988	Stemerick et al.	
		US- 5,002,961	03-1991	Dage et al.	
		US- 5,223,397	06-1993	Pouletty	
		US- 5,801,193	09-1998	Ojo-Amaize et al.	
		US- 5,942,494	08-1999	Ginsberg et al.	
		US- 5,972,924	10-1999	Keep et al.	
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		US- 6,831,057	12-2004	Baldwin et al.	
		US-			
		US-			
		US-			

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
/JD/		WO 98/34631 A1	08-1998	Thomas Jefferson University		
/JD/		WO 2001/83554 A2	11-2001	Praecis Pharmaceuticals Incorporated et al.		

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		Application Number	10/028,075
		Filing Date	December 21, 2001
		First Named Inventor	Khan et al.
		Group Art Unit	1636
		Examiner Name	J. Dunston
		Attorney Docket Number	2183-5223UIS

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		ARIMA et al., "IL-2-Induced Growth of CD8+ T Cell Prolymphocytic Leukemia Cells Mediated by NF-kappaB Induction and IL-2 Receptor alpha Expression," Leukemia Research, 1998, pp. 265-273, Vol. 22, No. 3.	
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		BROWN et al., "Two Forms of NF-kappaB1 (p105/p50) in Murine Macrophages: Differential Regulation by Lipopolysaccharide, Interleukin-2, and Interferon-gamma," Journal of Interferon and Cytokine Research, 1997, pp. 295-306, Vol. 17.	
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		EPINAT et al., "Diverse agents act at multiple levels to inhibit the Rel/NF-kappaB signal transduction pathway," Oncogene, 1999, pp. 6896-6909, Vol. 18.	
↓		FAUST et al., "Disseminated intravascular coagulation and purpura fulminans secondary to infection," Bailliere's Clinical Haematology, 2000, 179-197, Vol. 13, No. 2.	
/JD/		JIMENEZ-GARZA et al., "Early Effects of Modulating Nuclear factor-kappaB Activation on Traumatic Spinal Cord Injury in Rats," Ann. N.Y. Acad. Sci., 2005, pp. 148-150, Vol. 1053.	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/028,075
		Filing Date	December 21, 2001
		First Named Inventor	Khan et al.
		Group Art Unit	1636
		Examiner Name	J. Dunston
		Attorney Docket Number	2183-52231JS
Sheet	3	of	3

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/JD/		KIDD et al., "Autism, An Extreme Challenge to Integrative Medicine. Part II: Medical Management," Alternative Medicine Review, 2002, pp. 472-499, Vol. 7, No. 6.	
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/JD/		YANG et al., "Increased cortical nuclear factor kappaB (NF-kappaB) DNA binding activity after traumatic brain injury in rats," Neuroscience Letters, 1995, pp. 101-104, Vol. 197.	

Examiner Signature	/Jennifer Dunston/ (05/18/2007)	Date Considered	
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**INFORMATION DISCLOSURE  
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Sheet

2

of

2

**Complete if Known**

Application Number

10/028,075

Filing Date

December 21, 2001

First Named Inventor

Khan et al.

Group Art Unit

1636

Examiner Name

J. Dunston

Attorney Docket Number

2183-5223US

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
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		DWINNELL et al., Atlas of Diseases of the Kidney, Blackwell Sciences, 1999, pp. 12.1-12.12, Ch. 12.	
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/JD/		PELLIZZARI et al., FEBS Letters, 1999, pp. 199-204, Vol. 462.	

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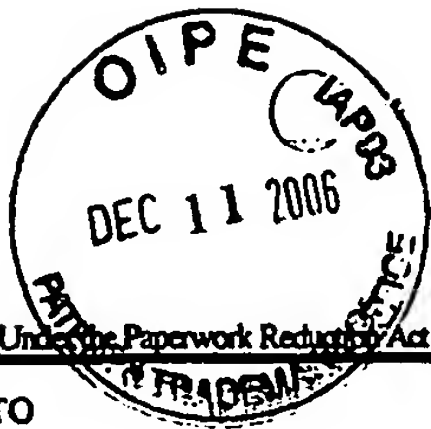
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Sheet 1 of 14

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Application Number	10/028,075
Filing Date	December 21, 2001
First Named Inventor	Khan et al.
Group Art Unit	1636
Examiner Name	J. Dunston
Attorney Docket Number	2183-5223US

**U.S. PATENT DOCUMENTS**

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		US-2003/0148955	08-2003	Plueneke	
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		US- 5,801,193	09-1998	Ojo-Amaize et al.	
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		US- 6,310,041	10-2001	Haddon et al.	
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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		WO 98/04631 A1	08-1998	Thomas Jefferson University		
		WO 2001/83554 A2	11-2001	Praecis Pharmaceuticals Incorporated et al.		

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Sheet 2 of 3 14

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Application Number	10/028,075
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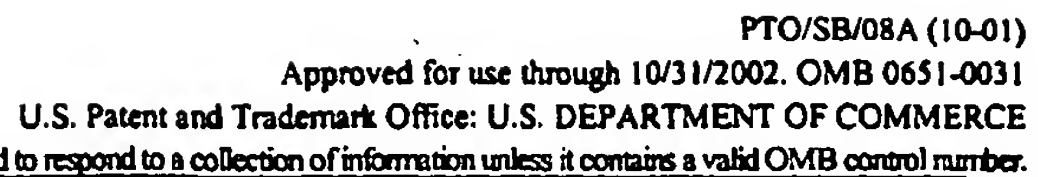
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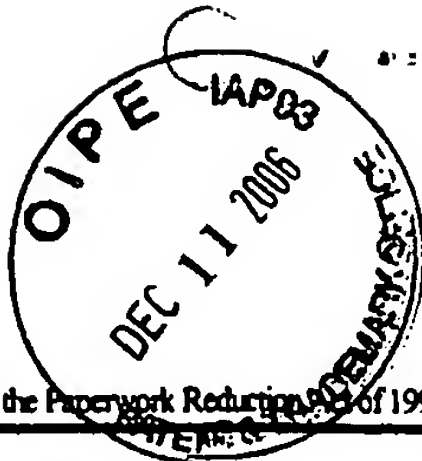


Sheet ~~1~~ 3 of ~~2~~ 14

<b>Application Number</b>	<b>10/028,075</b>
<b>Filing Date</b>	<b>December 21, 2001</b>
<b>First Named Inventor</b>	<b>Khan et al.</b>
<b>Group Art Unit</b>	<b>1636</b>
<b>Examiner Name</b>	<b>J. Dunston</b>
<b>Attorney Docket Number</b>	<b>2183-5223US</b>

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Sheet 4 of 14

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First Named Inventor	Khan et al.
Group Art Unit	1636
Examiner Name	J. Dunston
Attorney Docket Number	2183-522311S

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		NGO et al., The protein folding problem and tertiary structure prediction, 1994, pp. 492-94.	
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		Duplicate Citations	

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/Jennifer Dunston/ (05/18/2007)

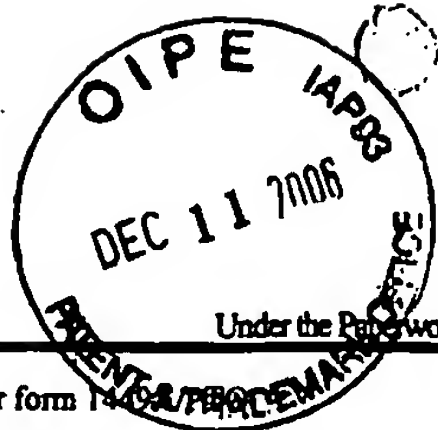
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**Complete if Known**

Application Number	10/028,075
Filing Date	December 21, 2001
First Named Inventor	Khan et. al.
Group Art Unit	4632 1636
Examiner Name	T. McKelvey J. Dunston
Attorney Docket Number	2183-5223US

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US- 4,977,244	12-11-1990	Muchmore et al.	
		US- 5,677,275	10-14-1997	Lunardi-Iskandar et al.	
		US- 5,877,148	03-02-1999	Lunardi-Iskandar et al.	
		US- 5,958,413	09-28-1999	Anagnostopoulos et al.	
		US- 5,997,871	12-07-1999	Gallo et al.	
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		US-5,851,997	12-22-1998	Harris	
		US- 6,489,296	12-03-2002	Grinnell et al.	

Duplicate Citations

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		EP 1 300 418	04-09-2003	Erasmus Universiteit Rotterdam		
		WO 98/35691	08-20-1998	Proscript, Inc.		
		WO 02/085117	10-31-2002	Eisai Co., Ltd.		
		DE 3715662	11-19-1987	The Wellcome Foundation Ltd.		
		DE 19953339	05-17-2001	Goldham Pharma GmbH		
		96/04008	02-15-1996	Government of the United States		
		97/49373	12-31-1997	University of Maryland Biotechnology Institute		
		97/49418	12-31-1997	University of Maryland Biotechnology Institute		
		97/49432	12-31-1997	University of Maryland Biotechnology Institute		

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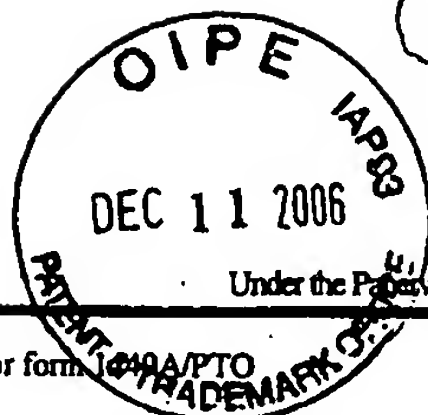
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		Application Number	10/028,075
		Filing Date	December 21, 2001
		First Named Inventor	Khan et. al.
		Group Art Unit	1692 1636
		Examiner Name	T. McKelvey J. Dunston
Sheet	2 6	of	2 14
		Attorney Docket Number	2183-5223US

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		CHRISTMAN et al., Nuclear factor kappaB: a pivotal role in the systemic inflammatory response syndrome and new target for therapy, Intens Care Med, 1998, pp. 1131-38, Vol. 24.	
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		MUCHMORE et al., Purification and Characterization of a Mannose-Containing Disaccharide Obtained from Human Pregnancy Urine, Journal of Experimental Medicine, December 1984, pp. 1672-85, Volume 160.	

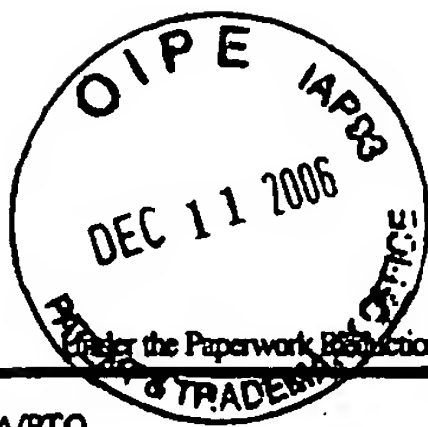
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet

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**Complete if Known**

Application Number	10/028,075
Filing Date	December 21, 2001
First Named Inventor	Khan et al.
Group Art Unit	1636
Examiner Name	J. Dunston
Attorney Docket Number	2183-5223US

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		KROD et al., "Autism, An Extreme Challenge to Integrative Medicine. Part II: Medical Management," Alternative Medicine Review, 2002, pp. 472-499, Vol. 7, No. 6.	
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		NEELY et al., "Then and now: Studies using a burned mouse model reflect trends in burn research over the past 25 years," Burns, 1999, pp. 603-609, Vol. 25.	
		SMITH et al., "Recent developments in drug therapy for multiple sclerosis," Multiple Sclerosis, 1999, pp. 110-120, Vol. 5.	
		TRAYSTMAN, R., "Animal Models of Focal and Global Cerebral Ischemia," ILAR Journal, 2003, pp. 85-95, Vol. 44, No. 2.	
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		YANG et al., "Increased cortical nuclear factor kappaB (NF-kappaB) DNA binding activity after traumatic brain injury in rats," Neuroscience Letters, 1995, pp. 101-104, Vol. 197.	

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**Complete if Known**

Application Number	10/028,075
Filing Date	12/21/2001
First Named Inventor	Khan et al.
Group Art Unit	<del>To be assigned</del> 1636
Examiner Name	<del>To be assigned</del> J. Dunston
Attorney Docket Number	2183-5223US

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Sheet ~~1~~ 8 of ~~2~~ 14

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Application Number	10/028,075
Filing Date	12/21/2001
First Named Inventor	Khan et al.
Group Art Unit	To be assigned 1636
Examiner Name	To be assigned J. Dunston
Attorney Docket Number	2183-5223US

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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		CONNELLY et al., Biphasic Regulation of NF- $\kappa$ B Activity Underlies the Pro- and Anti-Inflammatory Actions of Nitric Oxide, The Journal of Immunology, 2001, pp. 3873-81, 166, The American Association of Immunologists, USA.	
		FRIEDLANDER, Tackling anthrax, Nature, November 8, 2001, pp. 160-61, Vol. 414.	
		MEDZHITOV, Toll-Like Receptors and Innate Immunity, Nature Reviews/Immunology, November 2001, pp. 135-45, Vol. 1.	
		Duplicate Citations	

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Signature

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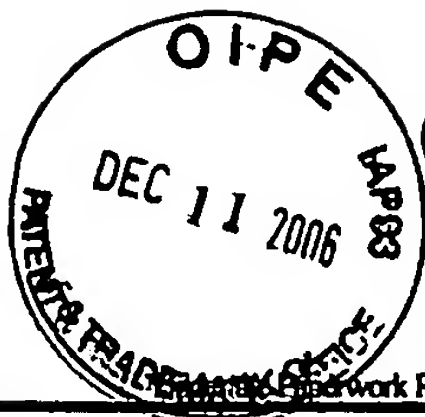
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**INFORMATION DISCLOSURE  
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Sheet

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**Complete if Known**

Application Number	10/028,075
Filing Date	December 21, 2001
First Named Inventor	Khan et al.
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Examiner Name	T. McKelvey J. Dunston
Attorney Docket Number	2183-5223US

**U.S. PATENT DOCUMENTS**

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		<del>US 6,727,227</del>	<del>04-27-2004</del>	<del>Khavinson</del>	<del>Duplicate Citation</del>
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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		<del>WO 01/20067</del>	<del>04-20-2004</del>	<del>Obshchestvo S Ogranichennoi Otvetsstvennostiiu "Klinika Instituta Bioregulyatsii I Gerontologii"</del>	<del>Duplicate Citation</del>	

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**INFORMATION DISCLOSURE  
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Sheet

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14

**Complete if Known**

Application Number	10/028,075
Filing Date	December 21, 2001
First Named Inventor	Khan et al.
Group Art Unit	1636
Examiner Name	T. McKelvey J. Dunston
Attorney Docket Number	2183-5223US

**NON PATENT LITERATURE DOCUMENTS**

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		KACHRA et al., "Low Molecular Weight Components but Not Dimeric HCG Inhibit Growth and Down-Regulate AP-1 Transcription Factor in Kaposi's Sarcoma Cells," Endocrinology, 1997, pp. 4038-4041, vol. 138, no. 9.	
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		KHAVINSON et al, Gerontological Aspects of Genome Peptide Regulation, 2005, S. Karger AG, Basel, Switzerland.	
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Sheet

12



14

**Complete if Known**

Application Number

10/028,075

Filing Date

**December 21, 2001**

**First Named Inventor**

Khan et al.

**Group Art Unit**

~~To be assigned~~ 1636

**Examiner Name**

~~To be assigned~~ J. Dunston

Attorney Docket Number

2183-5223US

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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Sheet 13 of 14**Complete if Known**

Application Number	10/028,075
Filing Date	December 21, 2001
First Named Inventor	Khan et al.
Group Art Unit	<del>To be assigned</del> 1636
Examiner Name	<del>To be assigned</del> J. Dunston
Attorney Docket Number	2183-5223US

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		PCT International Search Report, PCT/NL01/00259, dated December 18, 2001, 3 pages.	
		PCT International Preliminary Examination Report, PCT/NL99/00313, dated July 21, 2000, 6 pages.	
		PCT International Search Report, PCT/EP99/00313, dated November 29, 1999, 3 pages.	
		Lang et al., "Induction of apoptosis in Kaposi's sarcoma spindle cell cultures by the subunits of human chorionic gonadotropin", <u>AIDS</u> 1997, Vol. 11, No. 11, pp.1333-1340.	
		Iskandar et al., "Effects of a urinary factor from women in early pregnancy on HIV-1. SIV and associated disease", <u>Nature Medicine</u> , April 1998, Vol. 4, No. 4, pp. 428-434.	
		Duplicate Citations	

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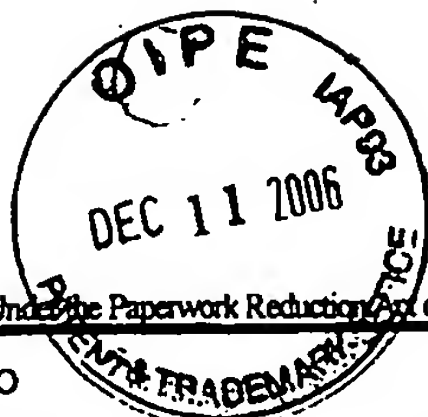
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14

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14

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**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US-5,380,668	01-10-1995	Herron	
		US- 2003/0186244 A1	10-02-2003	Margus et al.	
		US- 2003/0143733 A1	06-19-2003	Khan et al.	
		US- 2003/0119720 A1	06-26-2003	Khan et al.	
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		US- 2003/0166556 A1	09-04-2003	Khan et al.	
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		US- 2003/0219425 A1	11-27-2003	Khan et al.	
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		US-			
		US-			
		US-			
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		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		WO 03/030303 A2	04-10-2003	Erasmus Universiteit Rotterdam	Duplicate Citation	

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